

PERMIT APPLICATION: NRS #04.192

APPLICANT: James O.B. Wright
312 Dixon Cove Road
Sequatchie, Tennessee 37374
(423) 942-1725

LOCATION: Little Sequatchie River near Jasper in Marion County
35.1625°N, 85.6006°W

WATERSHED DESCRIPTION: Land use within the Little Sequatchie River watershed is predominantly silviculture with historic surface mining. The river is approximately 70 feet wide with 5-foot banks. The substrate is primarily cobble while the stream current is moderate and consists of pools and riffles. The existing vegetation along the stream channel is mature hardwoods. The Little Sequatchie River is classified as Tier 2 and fully supports classified uses. The stream's use classifications are: fish and aquatic life, recreation, irrigation, livestock watering and wildlife, and trout stream (T.C.A. §1200-4-4-.07). The federal listed endangered Anthony's River Snail has been documented in the Little Sequatchie River and the project site is within the mapped range.

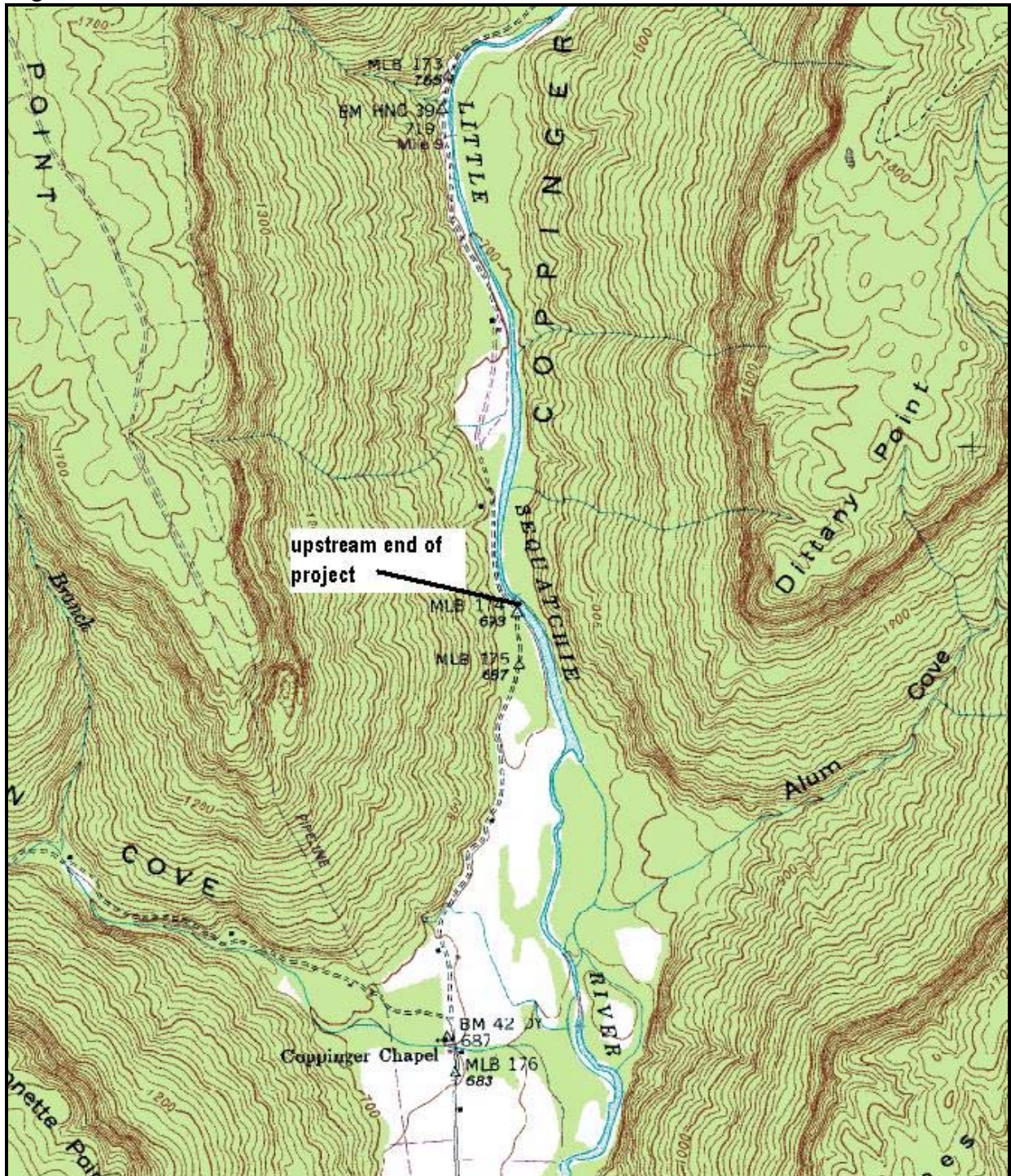
PROJECT DESCRIPTION: The applicant proposes to divert base flow of the stream back into an historic channel. Flood scour has allowed the river to flow down an adjacent gravel road. Cobble bedload that is presently blocking the upstream entrance into the historic channel would be excavated to allow flow to return. This material, along with more cobble from the adjacent bar would be used to form a small dam across the new channel to further divert flow from the old road bed.

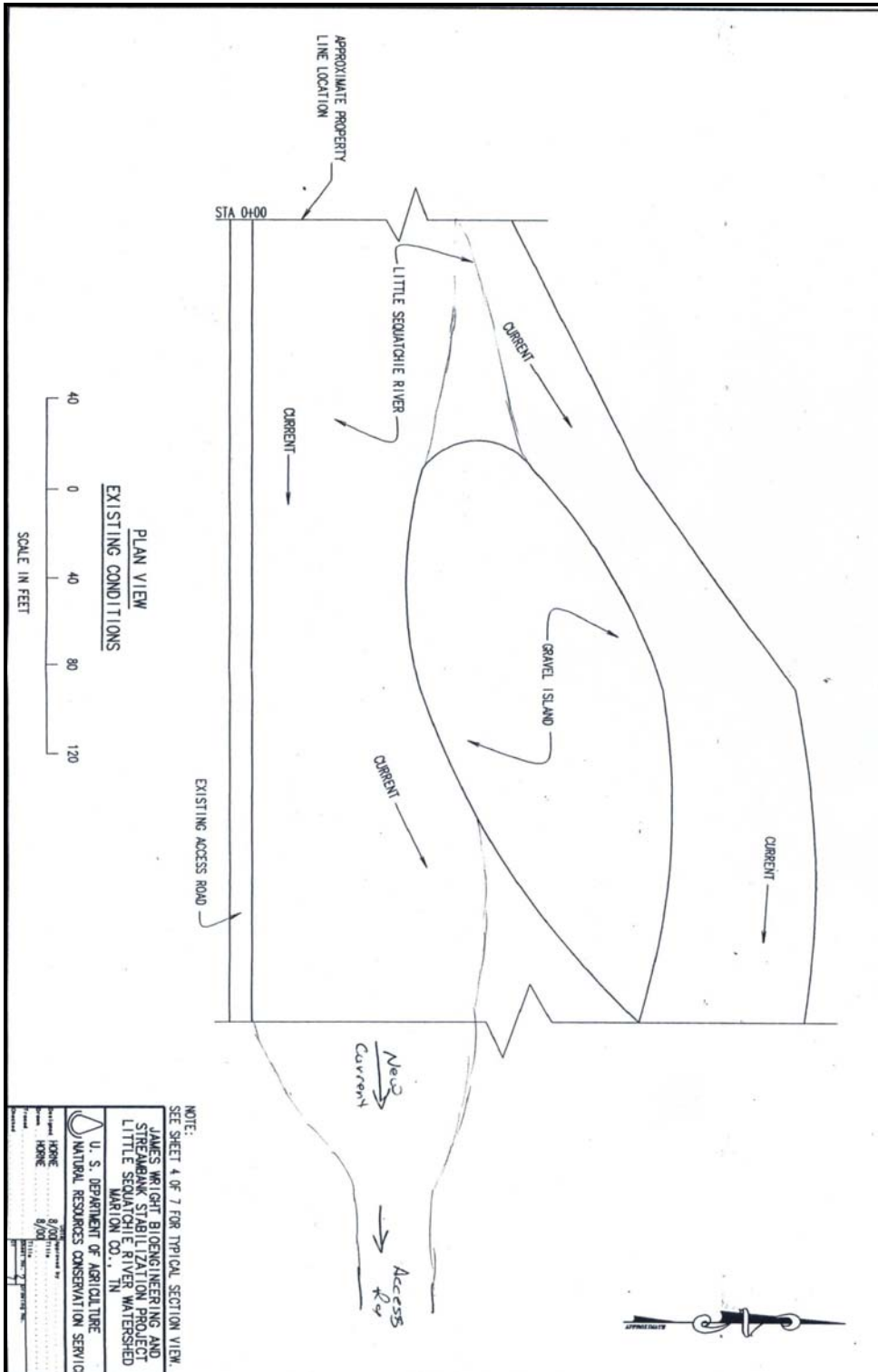
A series of four riprap jetties have been designed by the Natural Resource Conservation Service (NRCS) to be constructed on the right descending bank of the river just upstream of the diversion point. An access road must be constructed along the general alignment of the old gravel road to haul riprap for construction of the jetties. Further, a larger, more permanent riprap diversion dam would be constructed across the channel at the location of the temporary cobble diversion dam. While the structures have been designed by the NRCS, the burden of cost and construction is borne by the applicant.

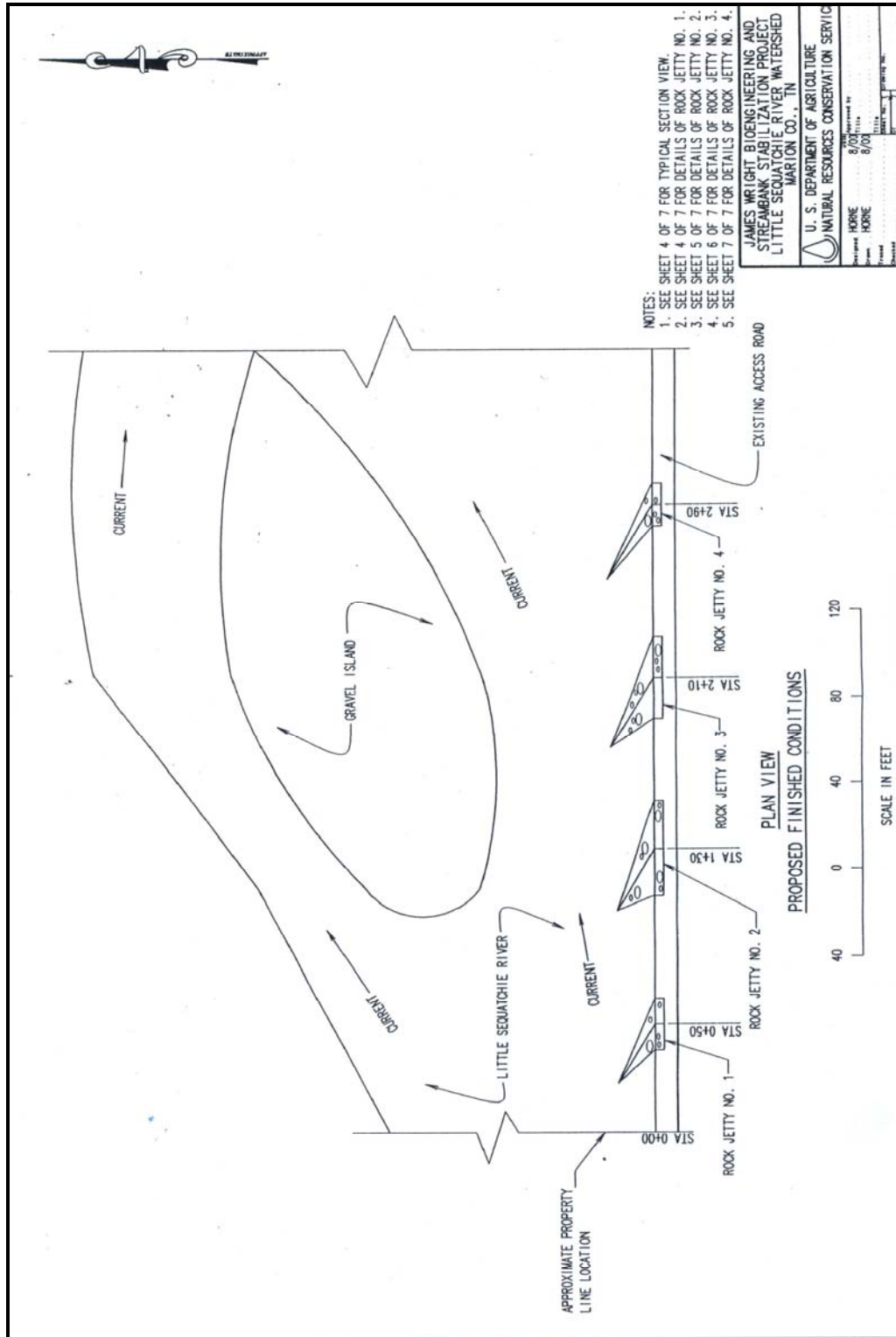
The approximate length of stream to be diverted is one mile. The subject access road has developed pools and riffles that meander through trees, and aquatic life has developed. The stated purpose of the project is to regain access to the farm fields opposite the new channel and to stop erosion and rock deposition in fields adjacent to the new channel during floods.

PERMIT COORDINATOR: Trent Thomas

USGS TOPOGRAPHIC QUADRANGLE: Whitwell, TN (100-NE)







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